

Novel elongase gene, and process for the preparation of  
polyunsaturated fatty acids

5 Abstract

The invention relates to a novel elongase gene with the sequence  
SEQ ID NO:1 or its homologs, derivatives or analogs, to a gene  
construct comprising this gene or its homologs, derivatives and  
10 analogs, and to its use. The invention also relates to vectors or  
organisms comprising an elongase gene with the sequence SEQ ID  
NO:1 or its homologs, derivatives or analogs.

Furthermore, the invention relates to a process for the  
15 preparation of polyunsaturated fatty acids and to a process for  
introducing DNA into organisms which produce large amounts of  
oils and, in particular, oils with a high content of unsaturated  
fatty acids. Moreover, the invention relates to an oil and/or a  
fatty acid preparation with a higher content of polyunsaturated  
20 fatty acids with at least two double bonds and/or a  
triacylglycerol preparation with a higher content of  
polyunsaturated fatty acids with at least two double bonds.

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